

**ABSTRACT OF THE DISCLOSURE**

1 A method for manufacturing a speaker diaphragm used for a range of audio  
2 equipment, a speaker diaphragm made using this manufacturing method, and a  
3 speaker employing such diaphragm. This manufacturing method for a speaker  
4 diaphragm offers good productivity, preventing deviation in wettability and heat  
5 deformation of speaker diaphragms in plasma treatment, and also offers a speaker  
6 with good input power durability. A meshed etching tunnel (2) made of aluminum  
7 is disposed inside a cylindrical quartz reactive chamber (1), and speaker diaphragms  
8 (4) are aligned inside the tunnel at a certain interval. Opposing electrodes (5) are  
9 disposed outside the reactive chamber (1). Plasma is applied at low temperature to  
10 prevent heat deformation. Uniform wettability is also assured by the use of the  
11 meshed etching tunnel (2), achieving high productivity. Uniform wettability further  
12 stabilizes bonding and improves bonding strength of the speaker diaphragm (4) onto  
13 the voice coil (18) and etching (19a), offering a speaker with improved input power  
14 durability.

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